WHAT IS CLAIMED IS:

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formed.

- 1. A method for fabricating a semicondudor device, comprising:
- a first step of forming an insulating film of high dielectricon a substrate; and
- a second step of irradiating light onto the substrate on which the insulating filmis
 - 2. The method of claim 1, wherein the insulating film is a gate insulating film of a transistor.
 - 3. The method of claim 2, further comprising, between the first and second steps, the step of selectively introducing dopants into the substrate.
- 4. The method of claim 2, further comprising, between the first and second steps, the step of forming a conductor film on the insulating film
 - 5. The method of claim 1, wherein the insulating film is a capacitor insulating film of a capacitor.
- 6. The method of claim 5, further comprising, prior to the first step, the step of selectively introducing dopants into the substrate.
 - 7. The method of claim 1, wherein the substrate is made of silicon.
 - 8. The method of claim 1, wherein the insulating filmcontains a metal element.
- The method of claim 8, wherein the insulating film contains at least one of hafnium, zirconium, lanthanum, cerium, praseodymium, neodymium, yttrium, and
 aluminum
 - 10. The method of claim 1, wherein the second step is conducted while the partial pressure of an oxygen gas or an oxygen compound gas is adjusted.
 - 11. The method of claim 1, wherein the atmosphere used in the second step is composed of a nitrogen gas or an inert gas.
- 25 12. The method of claim 1, wherein in the second step, the substrate is heated to 100 to 500 °C.